

YOUR GUIDE TO PROFESSIONAL WORKSTATION GRAPHIC CARDS

AMD RADEON™ PRO WORKSTATION GUIDE

AMDA RADEON PRO

Professional Graphics for Exceptional Performance with Reliability, Stability and Software Certifications at its Core.

AMD Radeon™ PRO Workstation Guide

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WHAT IS A PROFESSIONAL GPU?

AMD Radeon™ PRO GPUs have been designed specifically for professional end users. The graphics hardware and software are strenuously optimized to deliver outstanding graphics performance in a wide range of 2D and 3D professional applications. Radeon™ PRO graphic cards also offer robust display output capabilities to drive multiple ultra high-resolution displays in a variety of configurations.

Read the 'Why Choose AMD Radeon™ PRO Graphics' guide. Download the 2-page PDF.



EXCEPTIONAL RELIABILITY

Reliability is paramount for professionals. Radeon™ PRO graphics cards are designed exclusively by AMD for workstation environments, built with top quality components, and stress tested to exceptional standards for demanding workloads.



Learn more about reliability and good thermal management. Download this PDF.



APPLICATION CERTIFICATIONS AND OPTIMIZATIONS

Professional users rely on their GPUs to get critical projects done. Radeon™ PRO hardware and software is certified by leading professional application vendors. This means users have the peace of mind that their applications will be capable of meeting the needs of their demanding workflows.



Read more about AMD Radeon™ PRO ISV software certified applications.



ENTERPRISE-QUALITY SOFTWARE

All driver releases are rigorously tested for stability with professional applications as the top priority, while delivering performance optimizations and value-added features. Radeon™ PRO Software provides the optimal work environment for design professionals, whether in a small office or large enterprise.



Watch a summary of QA Consultants independent evaluation of stability across graphics drivers from both AMD and the competition.







KEY INDUSTRY VERTICALS

Today's modern workstation user requires performance, stability, image quality and software certifications for increased productivity. Users across all industries are expected to use more graphically intense applications than ever before, powered by a reliable system that is always ready to go. The entire AMD Radeon™ PRO graphics range answer these needs and goes further by bringing system power efficiencies, thermal efficiencies, and multitasking leadership, fully backed by robust software. AMD professional GPUs are for those who need performance, durability and high-quality components for increased reliability.

Access the AMD Radeon™ PRO Workstation Graphics Selector



ARCHITECTURE, ENGINEERING & CONSTRUCTION

Today's professional graphics allow you to explore form and space, textures, and even perform lighting studies, all from within your favorite BIM software. AMD Radeon™ PRO graphics offers acceleration and certification on many of today's leading software packages for 2D/3D design, visualization and complex simulation.



Learn more about AMD Radeon™ PRO GPUs for Architecture, Engineering and Construction.

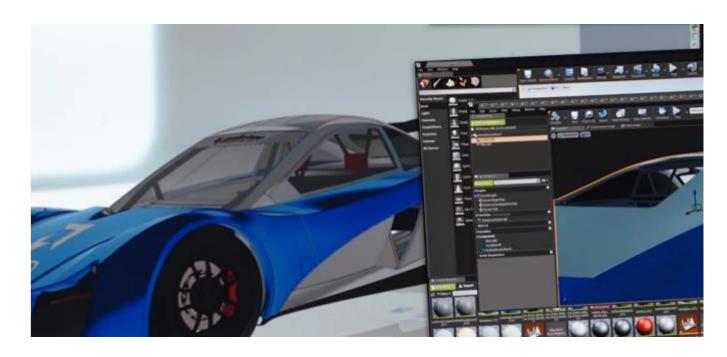


MEDIA & ENTERTAINMENT

Creative professionals can rely on the power of Radeon™ PRO graphics for their digital content creation workflows. From pixels to polygons,, AMD Radeon™ PRO graphics provide superb performance, value, and reliability for digital content creators to meet the explosive demand for cutting edge visuals.



Learn more about AMD Radeon™ PRO GPUs for Media & Entertainment.



DESIGN & MANUFACTURING

Stable and efficient CAD software is the cornerstone for engineers and designers looking to create the objects that fill the world around us. From industrial product design to automotive and aerospace, Radeon™ PRO graphics cards provide the necessary performance required to drive these increasingly complex models through the entire design pipeline.



Learn more about AMD Radeon™ PRO GPUs for Design & Manufacturing.







HIGHLIGHTS OF THE CURRENT RADEON™PRO GPU RANGE





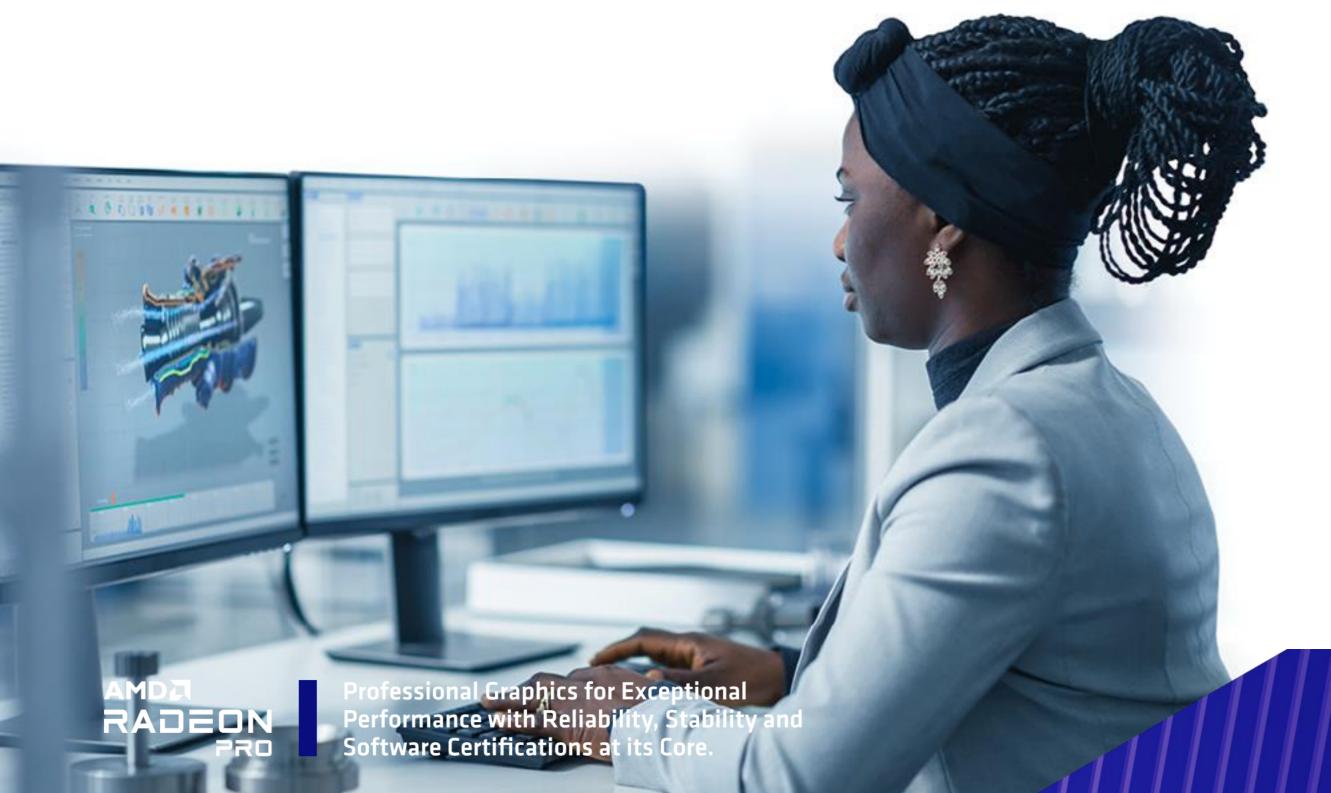
HIGH PERFORMING GRAPHICS FOUNDATION

BUILT ON EXPERIENCE

The AMD RDNA™ 2 graphics architecture is available in the professional range of Radeon™ PRO W6000 graphics cards and is built on years of dedicated graphics research. This established architecture is the basis for the graphics that power leading, visually rich gaming consoles and PCs.



Using our latest astonishing graphics architecture, we've taken performance further. As your projects get bigger, and more demanding, your GPU can keep pushing workloads towards that impending deadline.



AMD RDNA™ Compared to GCN (Prior Gen to Previous Gen.)

AMD RDNA™ 2 Compared to RDNA™ (Current Gen to Previous Gen.)

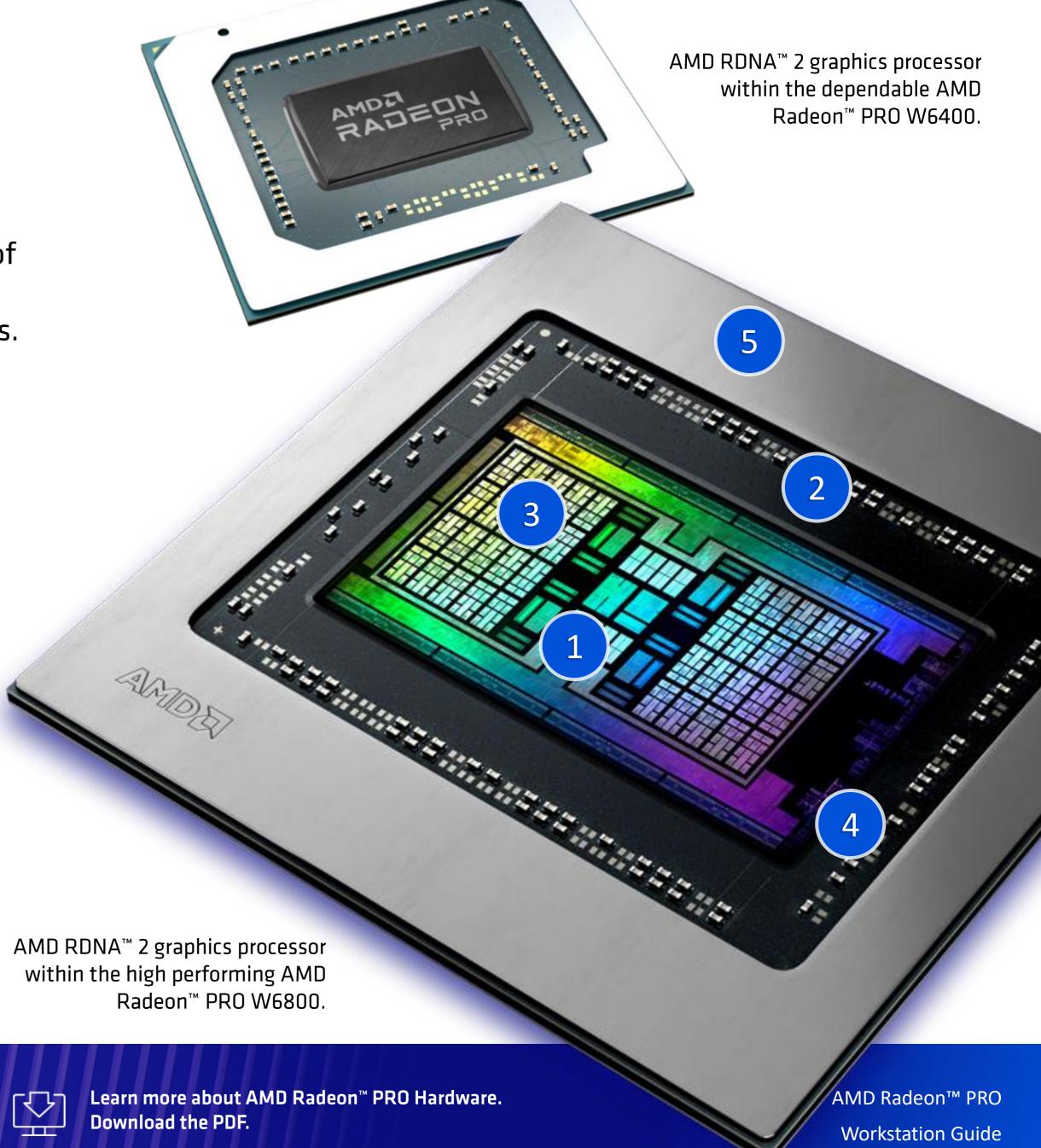
GRAPHICS ARCHITECTURE PERFORMANCE ADVANCEMENTS. MORE IS BETTER¹.



ESTABLISHED GRAPHICS ARCHITECTURE. HARDWARE RAYTRACING POWERED.

AMD RDNA™ 2 architecture introduces significant advancements in the form of the AMD Infinity Cache™ technology, an enhanced Compute Unit, Hardware Raytracing support, combined with a new visual pipeline for added efficiencies.

- **AMD Infinity Cache** Bandwidth Amplifier
- **Enhanced Compute Units** To Decrease Latency
- Ray Accelerators For Realtime Raytracing
- PCIe® 4.0 x16 Support Removing Bottlenecks
- **26.8 Billion Transistors** Within 520mm





Professional Graphics for Exceptional Performance with Reliability, Stability and Software Certifications at its Core.



AMD RDNA™ 2 graphics processor within the high performing AMD Radeon™ PRO W6800 GPU.

PUSHING GRAPHICS BANDWIDTH PERFORMANCE FURTHER

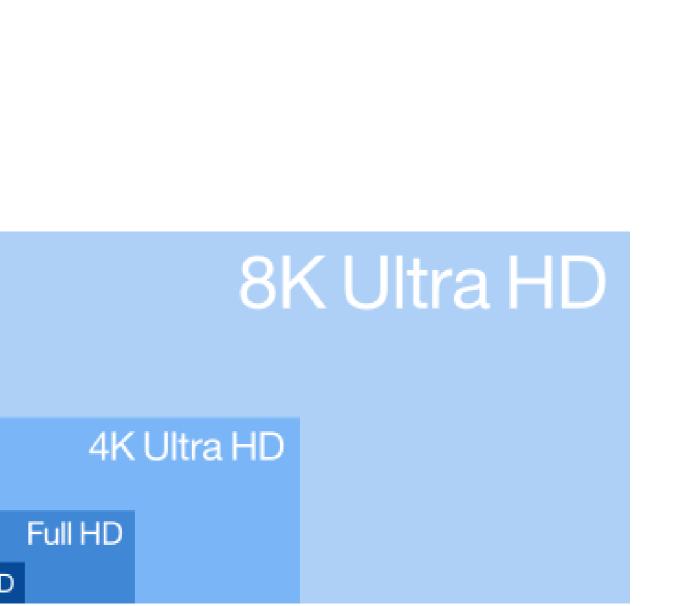
WHAT IS GRAPHICS BANDWIDTH?

Graphics memory bandwidth is typically referred to as units of gigabytes per second, or GB/s, where higher is ultimately better. However, this established quick-glance performance-rule has now been broken, with AMD taking a new approach by introducing an all-new AMD graphics-optimized architecture that builds on the knowledge of the "Zen" architecture.



Today's modern professional workloads bring challenges of higher resolution displays, bigger viewports and more data on screen. With a greater efficiency in the memory subsystem, frame rates can increase. To solve this challenge the all new and advanced AMD Infinity Cache™ technology was developed.

The requirement for high memory bandwidth is no longer only reserved for high-end GPUs. This is why AMD introduced the AMD Infinity Cache™ technology across the entire AMD RDNA™ 2 PRO series.





AMD RDNA™ 2 graphics processor within the high performing AMD Radeon™ PRO W6800 GPU.

PUSHING GRAPHICS BANDWIDTH PERFORMANCE FURTHER

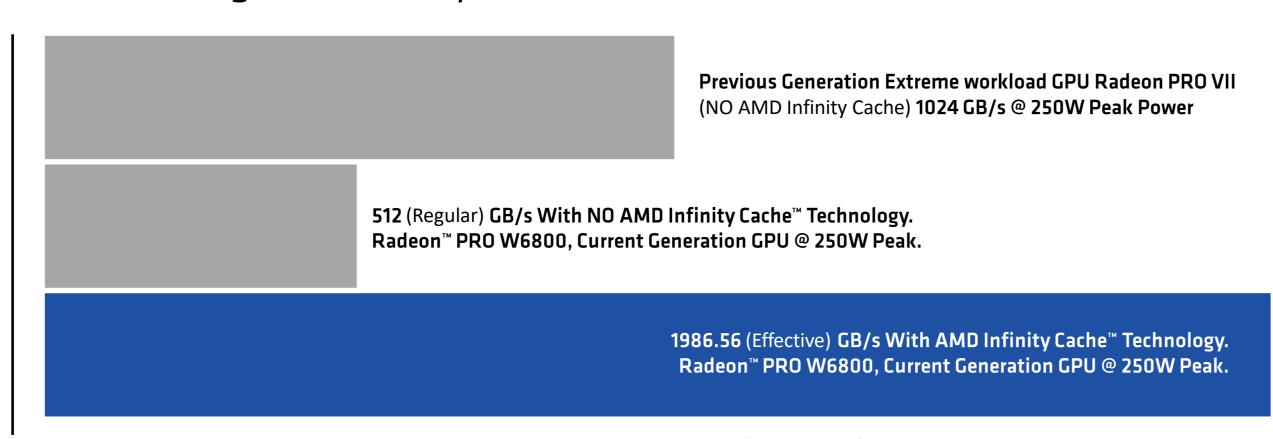
BREAKING THE RULES

This new cache acts as a super-charged bandwidth amplifier, meaning you can no longer look at the GB/s value alone to gauge performance, but also need to consider the resultant amplification for a true performance expectation.

Prior to the introduction of the latest AMD Radeon™ PRO W6000 series of graphics cards, it was easy to compare the memory bandwidth of GPUs and see the expected performance by examining the GPUs specifications. With the introduction of the AMD Infinity Cache™ technology the tables are now turned.

POWER AND EFFICIENCY

The performance gains of the AMD Infinity Cache™ technology and AMD RDNA™ 2 architecture can be delivered with no significant increase to power consumption. Leveraging high frequency data processing approaches enables the AMD Infinity Cache™ technology to deliver scalable, high-bandwidth performance.



On Radeon™ PRO W6000X processors, Infinity Fabric x32 is 2.6x the bandwidth (Data Rate 1.3x) of PCIe Gen 4.0 PCI Express x16. –RPW-391









LEADING THE WAY

AMD continues to lead the way by being the first to introduce the latest generation of technologies built around PCIe Gen 4.0 in our consumer and professional processor and graphics series.

The AMD Ryzen™ Threadripper™ PRO family of processors all accommodate up to 128x PCle 4.0 lanes and AMD Radeon PRO graphics was the first professional GPU to market with a 16-lane, PCle 4.0 graphics solution with all the expected certifications required by the professional user.

PRO W6800

PCIe Interface Connector on the High-Performing AMD Radeon™ PRO W6800 GPU.

LANES AND GRAPHICS CARDS

PCIe lanes dictate how much data can potentially be sent or received by a device, which can contain from 1 to 16 lanes. More lanes equate to higher data transfer and greater overall bandwidth, which is why different add in cards may require more PCIe lanes. Modern GPU's typically require a 16-lane slot due to the demanding nature of the calculations involved in content creation and driving pixels to one or more displays.

The complete Radeon™ PRO W5000 and W6000 series graphics support PCle Gen 4.0 and offer PCle 3.0 backwards compatibility







DISPLAYS & CONNECTORS

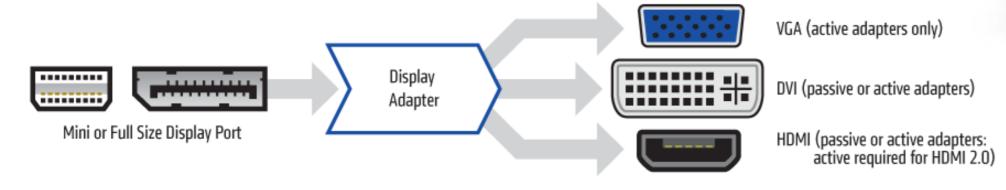
MONITORS

All AMD Radeon™ PRO WX and W series professional graphics cards support DisplayPort™ 1.4 which supports the latest ultra-high monitor resolutions, such as Ultra-Wide and 8K Ultra-HD (7680x4320). Depending on the product model, a Radeon™ PRO graphics card can be equipped with standard DisplayPort receptacles, Mini-DisplayPort, or a combination of both.

COMPATIBILITY WITH NON-DISPLAYPORT MONITORS

While Radeon™ PRO graphics cards are typically equipped with DisplayPort connectors, other types of connections (e.g., HDMI™) are also supported via adapters. There are two types of display adapters: passive and active.

- Passive adapter: only changes the connector form factor while relying on the GPU for signal conversion.
- Active adapter: contains an integrated circuit for signal conversion, while the GPU continues to output a standard DisplayPort signal.









Radeon™ PRO W6600 GPU with Four Full-size DP Outputs.



Mini-DisplayPort to DisplayPort adapter cables can be used if the monitor requires a standard DisplayPort cable connection.



Radeon™ PRO W6400 GPU with Two Full-size DP Outputs.







NOT SURE WHICH PRO GPU IS RIGHT FOR YOUR SOFTWARE?

GET A GREAT PRO GPU RECOMMENDATION

Use this Interactive Selector to help choose the GPU that matches your main software needs in just three easy clicks. Pick your industry. Select your software. Get a recommendation for the minimum graphics, recommended graphics and mobile graphics options available to you.



Get started by quickly selecting your software. Use this interactive GPU tool.

SOFTWARE CERTIFICATIONS

SOFTWARE STABILITY

Certifications are not something that should be taken for granted, which is why we put them at the core of our GPUs. Certifications offer solid reliability, stability, and dependability when that critical project deadline looms over you. We worry about them, so you don't have to.



Learn more about the importance of software certifications. Download the PDF.









AMDA RADEON PRO Professional Graphics for Exceptional Performance with Reliability, Stability and Software Certifications at its Core.

MEET THE FAMILY OF OVERACHIEVERS. METICULOUSLY ENGINEERED.

LIGHT TO MEDIUM GPU WORKLOADS



RADEON™ PRO **WX3200**

1.66 TFLOPS* 4GB Memory 4x Displays 50w Peak Board Power



DOWNLOAD THE DATASHEET



RADEON™ PRO W6400



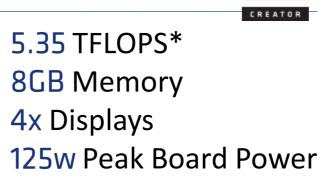


DOWNLOAD THE DATASHEET

MEDIUM TO HEAVY GPU WORKLOADS



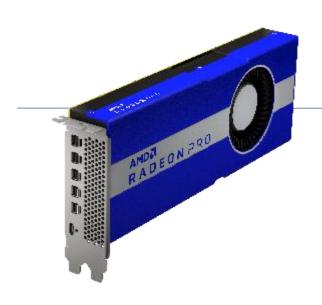
RADEON™ PRO W5500





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HEAVY TO EXTREME GPU WORKLOADS



RADEON™ PRO W5700



8.89 TFLOPS* **8GB** Memory **6**x Displays **205w Peak Board Power**



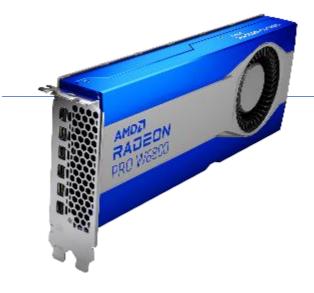
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DOWNLOAD THE DATASHEET



RADEON™ PRO W6800



17.83 TFLOPS* 32GB Memory **6**x Displays **261w** Peak Board Power



DOWNLOAD THE DATASHEET

Learn more about VR capabilities of Radeon™ PRO Graphics at amd.com/PRO-VR

*TFLOPS indicates Peak FP32 Performance.









TYPICAL DESKTOP GPU WORKLOAD SELECTION

SEGMENT SUGGESTIONS

The Radeon™ PRO family of professional graphics solutions was crafted for the most demanding of professional users. This PRO Graphics range provides the performance, features and reliability needed to tackle professional workflows in a multitude of industries.

The following is a good rule of thumb for typical professional graphics workloads:

- Heavy tasks Radeon™ PRO W6800 GPU
- Medium tasks Radeon™ PRO W6600 GPU
- Light tasks Radeon™ PRO W6400 GPU







Heavy

Unreal Engine, Lumion, Autodesk Maya & 3ds Max, Unity, SW Visualize, EDEM, Catia, ANSYS, Siemens NX....

Medium

Autodesk Inventor, SOLIDWORKS, Siemens NX, Foundry Nuke, Adobe Creative Cloud, Blender....

Light

Microsoft Office 365, Autodesk AutoCAD, Revit, Trimble SketchUp, Bentley MicroStation...







AMDA RADEON PRO W6600

AEC MAGAZINE



AT \$649, THE AMD RADEON PRO W6600 REPRESENTS EXCELLENT VALUE FOR A CERTIFIED PRO GPU FOR CAD AND BIM SOFTWARE THAT CAN ALSO HANDLE DESIGN VIZ AND VR WORKFLOWS.

GREG CORKE, EDITOR, AEC MAGAZINE.

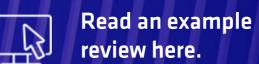




"THE SOLIDWORKS GRAPHICS TEAM AND AMD ARE COLLABORATING TO ACHIEVE THE VERY BEST VIEWPORT QUALITY. FOR THIS WE CHOSE REAL-TIME RAYTRACING USING VULKAN."

SIDDHARTH PALANIAPPAN, DIRECTOR OF GRAPHICS AND ADVANCED VISUALIZING, DASSAULT SYSTÈMES SOLIDWORKS









DESKTOP PRODUCT SPECIFICATIONS

		Radeon™ PRO WX 3200	Radeon™ PRO W6400	Radeon™ PRO W5500	Radeon™ PRO W6600	Radeon™ PRO W5700	Radeon™ PRO W6800
DISPLAY	Max Resolution per Display Output	7680x4320	7680x4320	7680x4320	7680x4320	7680x4320	7680x4320
	Display Connectors ¹ Support	(4x) Mini-DP	(2x) DP with DSC and Audio	(4x) DP with DSC	(4x) DP with DSC and Audio	(5x) Mini-DP with DSC, (1x) USB-C®	(6x) Mini-DP with DSC and Audio
	Graphics Memory	4 GB GDDR5	4 GB GDDR6	8 GB GDDR6	8 GB GDDR6	8 GB GDDR6	32 GB GDDR6
	Peak Memory Bandwidth	96 GB/s	128 GB/s + AMD Infinity Cache™	224 GB/s	224 GB/s + AMD Infinity Cache™	448 GB/s	512 GB/s + AMD Infinity Cache™
	Stream PROcessors	640	768	1408	1792	2304	3840
PERFORMANCE	Ray Accelerators	3 70 15 16	12		28		62
	Peak Half Precision (FP16 TFLOPS)	1.66	xx	10.7	20.81	17.78	35.66
	Peak Single Precision (FP32 TFLOPS)	1.66	xx	5.35	10.40	8.89	17.83
	Peak Double Precision (FP64 TFLOPS)	0.10	xx	0.33	0.65	0.55	1.11
	DirectX® 12 Version	12_0	12_1 Ultimate	12_1	12_1 Ultimate	12_1	12_1 Ultimate
SOFTWARE API	OpenGL Version	4.6	4.6	4.6	4.6	4.6	4.6
SUPPORT	OpenCL™ Version	2.0	2.2	2.0	2.1	2.0	2.1
	Vulkan® Version	1.1	1.2	1.1	1.2	1.1	1.2
	AMD VR Ready Creator ³	0 0		•	•		
	Hardware Raytracing Support		•		•		•
	ECC Memory						•
	HEVC Encode/Decode ⁴	0 0 0 0		4		4 May 4 4 May 5	
KEY FEATURES	10-Bit Display Pipeline Support			•			
	AMD DirectGMA Technology	•	•	•	•	•	
	Quad-Buffer 3D Stereo Support	10 mm	• • • • • • • • • • • • • • • • • • • •		• 10 10 10		
	PCIe® Support	3.0 (x8)	3.0 and 4.0 (x4)	3.0 and 4.0 (x8)	3.0 and 4.0 (x8)	3.0 and 4.0 (x16)	3.0 and 4.0 (x16)
	AMD Remote Workstation ⁵	•		•	•		
ete ilij iz	Graphics Card Form Factor	Low PROfile, Single Slot	Half Height, Single Slot	Full Height, Single Slot	Full Height, Single Slot	Full Height, Double Slot	Full Height, Double Slot
SYSTEM REQUIREMENTS	Peak Power Consumption	50 W	50 W	125 W	130W	205 W	250 W
RECONCIVE VID	PCIe Power Connectors	0 10 - 01 16	in the tenth of	6-pin	6-pin	6-pin & 8-pin	6-pin & 8-pin
		DATASHEET	DATASHEET	DATASHEET	DATASHEET	DATASHEET	DATASHEET





DISPLAY RESOLUTION SUPPORT

MODERN DISPLAY TECHNOLOGY SUPPORT AS STANDARD. All Radeon™ PRO WX and W series graphics cards support the latest DisplayPort™ 1.4 specification, which enables ultra-high monitor resolutions, such as 8K UHD (7680x4320), as well as technologies to enhance photorealism such as High Dynamic Range (HDR).

The table to the right shows the monitor resolution support for Radeon™ PRO WX, and W series desktop graphics cards based on the physical display connectors offered by each card assuming direct connections from the graphics card to the monitor. It does not take into account the usage of intermediary devices such as display adapters, DisplayPort Multi-Stream Transport (MST) hubs, or DisplayPort monitor daisy chaining.

All display resolution modes are based on standard 24-bit color depth used by common computer monitors. For high-end monitors that require greater color bit depths (e.g.30-bit), please contact the monitor vendor for compatibility information.

	Outputs	Full HD (1920x1080)	4K (3840x2160)	5K (5120x2880)	8K (7680x4320)
Radeon™ PRO W6800	(6x) Mini-DisplayPort with DSC	6 @ 240 Hz	6 @ 60 Hz	6 @ 60 Hz	2 @ 60 Hz
Radeon™ PRO W6600	(4x) DisplayPort with DSC	4 @ 240 Hz	4 @ 60 Hz	4 @ 60 Hz	1@ 60 Hz
Radeon™ PRO W5700	(5x) Mini-DisplayPort with DSC (1x) USB Type-C	6 @ 240 Hz	6 @ 60 Hz 3 @ 120 Hz	3 @ 60 Hz	3 @ 60 Hz
Radeon™ PRO W5500	(4x) DisplayPort with DSC	4 @ 240 Hz	4 @ 60 Hz 2 @ 120 Hz	2 @ 60 Hz	2 @ 60 Hz
Radeon™ PRO W6400	(2x) DisplayPort with DSC and Audio Support	2 @ 120 Hz	2 @ 120 Hz	2 @ 60 Hz	1@ 60 Hz
Radeon™ PRO WX 3200	(4x) Mini-DisplayPort	4 @ 120 Hz	4 @ 60 Hz 1 @ 120 Hz	2 @ 60 Hz (dual cable) 1 @ 60 Hz (single cable)	1@ 60 Hz (dual cable) 1@ 30 Hz (single cable)





RADEONTM PROGPUUPGRADE PATHS







The latest generation of Radeon™ PRO GPUs offer advanced feature support. Consider this table as a handy guide for those looking to upgrade existing GPU performance.





W6400 (\$230)

4GB GDDR6 | 64-bit | 128GB/s PCle Gen4 x4 | 2x DP + DSC 50W | Half-Height / Single-Slot

T600 (\$211) 4GB GDDR6 | 128-bit | 160GB/s TU117 | PCIe Gen3 x16 | 4x mDP 40W | Half-Height / Single-Slot

T400 (\$144)

4GB GDDR6 | 64-bit | 80GB/s TU117 | PCle Gen3 x16 | 3x mDP 30W | Half-Height / Single-Slot

TURING

2GB GDDR6 | 64-bit | 80GB/s TU117 | PCle Gen3 x16 | 3x mDP 30W | Half-Height / Single-Slot

T400 (\$170)

WORKLOADS MEDIUM

W6600 (\$690)

8GB GDDR6 | 128-bit | 224GB/s Navi23 | PCle Gen4 x16 | 4x DP +

100W | Full-Height / Single-Slot

RTX A2000 (\$700)

12GB GDDR6 | 192-bit | 288GB/s GA106 | PCle Gen4 x16 | 4x mDP 70W | Half-Height / Dual-Slot

AMPERE RTX A2000 (\$439)

6GB GDDR6 | 192-bit | 288GB/s GA106 | PCle Gen4 x16 | 4x mDP 70W | Half-Height / Dual-Slot

WORKLOADS

HEAVY

AMPERE

T1000 (\$442)

8GB GDDR6 | 128-bit | 160GB/s TU117 | PCle Gen3 x16 | 4x mDP 50W | Half-Height / Single-Slot

TURING

AMPERE

T1000 (\$332)

4GB GDDR6 | 128-bit | 160GB/s TU117 | PCle Gen3 x16 | 4x mDP 50W | Half-Height / Single-Slot



W6800 (\$1,900)

32GB GDDR6 | 256-bit | 512GB/s Navi21 | PCle Gen4 x16 | 6x mDP +

250W | Full-Height / Dual-Slot

RTX A6000 (\$4,694)

48GB GDDR6 | 384-bit | 768GB/s GA102 | PCle Gen4 x16 | 4x DP 300W | Full-Height / Dual-Slot

RTX A5500 (\$4,500)

24GB GDDR6 | 384-bit | 768GB/s GA102 | PCIe Gen4 x16 | 4x DP 230W | Full-Height / Dual-Slot

RTX A5000 (\$1,900)

24GB GDDR6 | 384-bit | 768GB/s GA102 | PCIe Gen4 x16 | 4x DP 230W | Full-Height / Dual-Slot

RTX A4500 (\$1,160)

20GB GDDR6 | 320-bit | 640GB/s GA102 | PCle Gen4 x16 | 4x DP 200W | Full-Height / Dual-Slot

RTX A4000 (\$938)

16GB GDDR6 | 256-bit | 448GB/s GA104 | PCle Gen4 x16 | 4x DP 140W | Full-Heigh / Single-Slot

*Newegg USD e-tail pricing for individual AMD and NVIDIA GPUs as of November 2nd, 2022 – RPW 409a





MOVE TO THE NEXT LEVEL

The latest generation of Radeon™ PRO GPUs offer advanced feature support. The below table is a handy guide for those looking to upgrade existing GPU performance.

WORKSTATION: UPGRADE TO



RADEON™ PRO W6800



W6600



RADEON™ PRO W6400

FROM

AMD Radeon™ PRO WX 8200, WX 9100, FirePRO™ W9100

NVIDIA RTX A4000, RTX 4500, RTX A5000, RTX A5500, RTX A6000

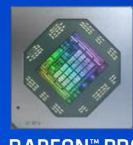
AMD Radeon™ PRO WX 5100, WX 7100, W5700, W5500, FirePRO™ W7100, W8100

NVIDIA RTX A2000 (6GB), RTX A2000, (12GB), T1000 (8GB), T1000 (4GB)

AMD Radeon™ PRO WX 2100, 3100, 3200, 4100, FirePRO™ W2100, W4100, W4300, W5100

NVIDIA T400 (2GB), T400 (4GB) T600

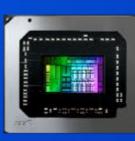
MOBILE: UPGRADE TO



RADEON™ PRO W6600M



RADEON™ PRO W6500M



RADEON™ PRO W6300M

FROM

AMD Radeon™ PRO WX 5100, WX 7100, W5500M

NVIDIA Quadro P2200 to P5200, and RTX 3000 to RTX 5000

AMD Radeon™ PRO WX 3200, 4100

NVIDIA Quadro P1000

AMD Radeon™ PRO WX 2100, 3100, FirePRO™ W4170M, W4190M

NVIDIA Quadro P500, P600









Professional Graphics for Exceptional Performance with Reliability, Stability and Software Certifications at its Core.



DELL PRECISION FIXED WORKSTATIONS



Radeon PRO GPU Configurations Supported:	Radeon™ PRO WX 3200	Radeon™ PRO W6400	Radeon™ PRO W5500	Radeon™ PRO W6600	Radeon™ PRO W5700	Radeon™ PRO W6800	Radeon™ PRO SSG
Precision SFF 3460	x1	x1					
Precision Tower 3450	x1			<u>-</u>			·
Precision Tower 3650	Up to 2x		Up to 2x	1x	1x	1x	
Precision Tower 3660	Up to 2x	Up to 2x		Up to 2x		1x	
Precision Tower 5820	Up to 2x	Up to 2x	Up to 2x	Up to 2x	Up to 2x	1x	1x
Precision Tower 7820	Up to 2x	1x	Up to 2x	Up to 2x	Up to 2x	1x	1x
Precision Tower 7865		Up to 2x Date TBD		Up to 2x		Up to 2x	• • •
Precision Tower 7920	Up to 2x	1x	Up to 3x	Up to 3x	Up to 3x		







Radeon PRO GPU Configurations Supported:	Radeon™ PRO WX 3200	Radeon™ PRO W6400	Radeon™ PRO W5500	Radeon™ PRO W6600	Radeon™ PRO W5700	Radeon™ PRO W6800
Precision 3930R (1U Rack Mount)	Up to 2x	Up to 2x	Up to 2x	0 0 <u>0</u> 0		1x
Precision 7920R (2U Rack Mount)	Up to 2x	Up to 2x	Up to 4x	Up to 4x	Up to 3x	







DELL PRECISION 7865

AMD Ryzen™ Threadripper™ PRO (280W) processor, 12-64 Cores, up to two AMD Radeon™ PRO W6000 series graphics, up to 56TB storage, RAID capable and self encrypting options, Ultra-speed card available (up to 16TB), 8x DDR4 RDIMM up to 1TB at 3200MHz, 1350W 80 Plus high efficiency PSU, high speed I/O including optional Thunderbolt™.

Radeon PRO GPU Configurations Supported:	Radeon™ PRO W6400	Radeon™ PRO W6600	Radeon™ PRO W6800
Precision 7865	Up to 2x Date TBD	Up to 2x	Up to 2x











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ENDNOTES

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Graphics Card images are artistic product renderings.

Specifications may vary with OEM or partner implementation.

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1 Testing as of March 23, 2021 by AMD Performance Labs on a test system comprised of an AMD Ryzen™ 5950X with AMD Radeon™ PRO W5700, AMD Radeon™ PRO W6800, AMD Radeon™ PRO WX 9100. Benchmark Applications: Lumion v.11 (Museum, Valley Winery, Downtown Development, Glass House, Villa Cabrera, Farnsworth, Residential Home, Beach House), Topaz Video Enhance AI 2.0.0 (Artemis-HQ, Gaia-HQ, Theia-Detail), Dassault Systèmes SOLIDWORKS® Visualize 2021 SP3 (Camaro default angle, Yellow motorcycle, Snowmobile). Performance may vary based on factors such as tasks performed, driver version and hardware configuration. RPW-363

2 All Radeon PRO W and WX series workstation cards display outputs can provide display resolution for up to 8K UHD.For more information on supported display configurations, visit https://www.amd.com/en/technologies/eyefinity-professionals

3 Radeon VR Ready Creator products are select Radeon PRO and AMD FirePRO GPUs that meet or exceed the Oculus Rift or HTC

Vive recommended specifications for video cards/GPUs. Other hardware (including CPU) and system requirements recommended by Oculus Rift or HTC Vive should also be met in order to operate the applicable HMDs as intended. As VR technology, HMDs and other VR hardware and software evolve and/or become available, these criteria may change without notice. PC/System manufacturers may vary configurations, yielding different VR results/performance. Check with your PC or system manufacturer to confirm VR capabilities. GD-101

4 HEVC (H.265), H.264, and VP9 acceleration are subject to and not operable without inclusion/installation of compatible HEVC players. GD-81

5 Compatible with AMD Radeon™ PRO WX 2100, 3100, 3200, 4100, 5100, 7100, 8200, 9100, and AMD Radeon™ PRO W5500, W5700, W6400, W6600, W6800 and VII GPUs. Remote Workstation functionality requires purchase and installation of Citrix Virtual Apps & Desktops™, HP ZCentral™ Remote Boost, Microsoft® Remote Desktop Services, Teradici® Cloud Access Software or VMware Horizon®. Citrix and Microsoft require Enterprise driver 18.Q4 or newer, VMware requires Enterprise driver 20.Q3 or newer, ZCentral requires Enterprise driver 21.Q2 or newer, Teradici requires Enterprise driver 21.Q3 or newer. RPS-50a

On Radeon™ PRO W6000X processors, Gen 4.0 PCI Express® x16 capable of 16 Gbps data rate and Radeon™ Pro 6000 Series with Infinity Fabric Link capable of 21 Gbps data rate per lane with 32 lanes. PCIe Gen 4 16Gbps data rate per lane with 16 lanes (21x32)/(16x16) = 672/256 = 2.6X . Infinity Fabric is 2.6x the BANDWIDTH (1.6x HIGHER) of/than PCIe Gen 4.0 x16. The DATA RATE of Infinity Fabric is 21/16=1.3x the rate (.3x or 30% faster) than PCIe 4.0 x16. RPW-391

Newegg USD E-tail pricing for individual AMD and NVIDIA GPUS and as of November 11, 2022. RPW-409a

Learn more about AMD's Remote Workstation: https://www.amd.com/en/technologies/radeon-pro-software







Professional Graphics for Exceptional Performance with Reliability, Stability and Software Certifications at its Core.